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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,749	12/29/2004	Naomi Noda	122341	9225
25944 OLLEE & DEI	7590 06/29/2007	EXAMINER		
OLIFF & BERRIDGE, PLC P.O. BOX 19928			NGUYEN, CAM N	
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
			1754	
			MAIL DATE	DELIVERY MODE
			L	
			06/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		- <u>-</u>				
•	Application No.	Applicant(s)				
	10/519,749	NODA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cam N. Nguyen	1754				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY	VIQ CET TO EVOIDE 2 MONTH	I/E) OD THIDTY (20) DAVE				
WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be to the transport of transport of the transport of transport o	N. imely filed In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 De	ecember 2004.					
2a) This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>8-14</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.		•				
6)⊠ Claim(s) <u>8-14</u> is/are rejected.	6)⊠ Claim(s) <u>8-14</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the	•					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receiv	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	Date Patent Application					
Paper No(s)/Mail Date <u>originally filed</u> .	6) Other:	· ····································				

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DETAILED ACTION

Claim Rejections - 35 USC § 102(e)

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 8-10 & 12-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Tanaka et al., "hereinafter referred to as Tanaka '816", (US Pat. 6,887,816 B2).

Tanaka '816 discloses a product material, which comprises a coating agent comprising photocatalytic particles and a binder (inorganic compound, i.e., Zr, Si, Ti, and Al) on an inorganic substrate (metal or ceramic). The photocatalytic particles are composite particles containing titanium oxide and photocatalytically inactive ceramic (alkaline earth metal, transition metal, or Al). The titanium oxide contains a rutile-type crystal form. Further, the titanium oxide contains at least two crystal forms selected from the group among anatase, rutile, and brookite. See col. 24- col. 26, claims 1-62 of the reference.

There is no patentable distinction seen between the claimed catalyst carrier and catalyst body, and those disclosed by Tanaka '816. Thus, the claims are anticipated by the teaching of the reference.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al., "hereinafter referred to as Tanaka '816", (US Pat. 6,887,816 B2).

Tanaka '816 discloses photocatalytic particles and product material as described above, except for the pre-coat layer amounts being required.

However, it would have been *prima facie obvious* to one of ordinary skill in the art at the time the invention was made to have predetermined optimum amounts of such materials of the photocatalytic particles of Tanaka '816 in order to achieve an effective catalyst material because it is a result effective variable, in view of *In re Boesch*.

Citations

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. All references are cited for related art. See PTO-892 Form prepared.

Conclusion

6. Claims 8-14 are pending. Claims 8-14 are rejected. No claims are allowed.

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Contacts

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Primary Examiner Cam N Nguyen, whose telephone number is

571-272-1357. The examiner can normally be reached on M-F, 9:00 AM - 6:30 PM, at

alternative work site.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the

organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Cam N. Nguyen/

Nguyen/cnn

Primary Examiner.

June 25, 2007

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